

ROGOVIN, M.S., kand. pedagog. nauk; BARABANSHCHIKOV, A.V., kand.
ped. nauk, red.; FEDENKO, N.F., kand. ped. nauk, red.;
ZAV'YALOV, V.I., red.; BOKOLOVA, G.F., tekhn. red.

[Contemporary bourgeois military psychology; a collection
of translated articles] Sovremennaya burzhuaznaya voennaya
psikhologiya; sbornik perevodnykh statei. Moskva, Voenizdat,
1964. 293 p. (MIRA 1712)

ZAV'YALOV, V.I.

Restorative period following prolonged work leading to marked exhaustion. Vrach. delo no.1:93-96 Ja'64 (MIRA 17:3)

1. Kafedra normal'noy fiziologii Kiyovskogo meditsinskogo instituta.

NAMETKIN, N.S.; VDOVIN, V.M.; ZAV'YALOV, V.I.

Silicocyclobutane polymerization catalysts. Izv.AN SSSR. Ser.khim.
no.1:203 Ja '64. (MIRA 17:4)

1. Institut neftekhimicheskogo sinteza im. A.V.Topchiyeva AN SSSR.

NAMETKIN, N.S.; VDOVIN, V.M.; ZAV'YALOV, V.I.

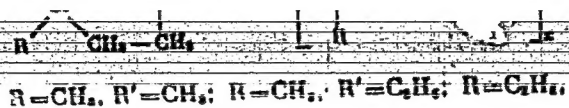
Silylethylene elastomers. Vysokom. soed. 7 no.4:757 Ap '65.
(MIRA 18:6)

"APPROVED FOR RELEASE: 03/15/2001

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L 31884-66 EWT(m)/EWP(j)/T RM/WW

ACC NR: AP6012538

SOURCE CODE: UR/0062/66/000/003/0584/0585

AUTHOR: Nametkin, N. S.; Vdovin, V. M.; Gusel'nikov, L. Ye.; Zav'yalov, V. I.

ORG: Institute of Petrochemical Synthesis im. A. V. Topchiyeva, Academy of Sciences SSSR (Institut neftekhimicheskogo sinteza, Akademii nauk SSSR)

TITLE: Formation of 1,3-disilacyclobutanes in protolytic condensation reaction of 1-silacyclobutanes

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, 584-585

TOPIC TAGS: organic synthesis, silicon compound, condensation reaction

ABSTRACT: 1,1-dimethyl-1-silacyclobutane was passed in a stream of helium through a quartz tube, 14 mm in diameter and 200 mm in length, heated to 600°C at the rate of 3 g/hr. The reaction mixture consisted of gaseous and liquid products. Gas-liquid chromatography and IR spectroscopy showed the gaseous products to consist of ~95% ethylene and ~5% methane. As a result of separation by distillation, it was established that the condensate contains unreacted monosilacyclobutane and 1,1,3,3-tetramethyl-1,3-disilacyclobutane, produced with ~55% yield. The disilacyclobutane

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UDC: 546.287 + 542.954

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obtained has the following characteristics: b.p. 118-120°C, n_D^{20} 1.4411; d_4^{20} 0.7988, m. wt. 139. 1,1-dichloro-1-silacyclobutane was similarly converted to crystalline 1,1,3,3-tetrachloro-1,3-disilacyclobutane at 680°C with high yield. The gaseous product consisted of only ethylene. *q*

SUB CODE: 07/ SUBM DATE: 28Dec65/ ORIG REF: 001/ OTH REF: 000

Card 2/2 *lo*

ZAV'YALOV, V.I.

Veterinary work in Estonia during the years of the Soviet rule.
Veterinariia 38 no.1:9-12 Ja '61. (MIRA 15:4)

1. Nachal'nik veterinarnogo upravleniya Ministerstva sel'skogo
khozyaystva Estonskoy SSR.
(Estonia--Veterinary medicine)

VDOVIN, V.M., ZAVYALOV, V.L., PUSHCHEVAIA, K.S.

"Umwandlungen von silicium kohlenstoff heterozyklen mit Si im ring
unter einwirkung von $AlCl_3$."

"Conversion of Si-C heterocycles containing Si in the ring under the influence
of $AlCl_3$."

Report submitted to the 2nd Dresden Symp. on Organic and Non-Silicate
Silicon Chemistry.

Dresden, East Germany 26-30 March 1963

Institute for petrochemical syntheses of the Academy of Science of the USSR,
Moscow.

TOPCHIEV, A.V. [deceased]; NAMETKIN, N.S.; TSYU SYAO-PEY; DURGAR'YAN,
S.G.; ZAV'YALOV, V.I.

Polymerization of monoallyl derivatives of silicon with the
catalytic system $(1-C_4H_9)_3Al TiCl_4$. Izv. AN SSSR. Otd. khim. nauk
no. 2: 269-274 F '63. (MIRA 16:4)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Silicon organic compounds) (Organometallic compounds)
(Polymerization)

ZAV'YALOV, V.M.; PALIY, A.M.

Geological and economic indices of the efficiency of prospecting
in the eastern Ukrainian oil-bearing basin. Neft. i gaz. prom.
no.3:1-5 J1-S '64. (MIRA 17:12)

ZAV'YALOV, V.M.; KORCHINSKAYA, I.A.; STARINSKIY, V.A.

Oil and gas reserves in the Dnieper-Donets Lowland.
Neftegaz. geol. i geofiz. no.3:24-27 '65. (MIRA 18:7)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut.

ZAV'YALOV, V.M.; MUROMTSEV, A.S.; PALIY, A.M.; CHEKALYUK, E.B.; CHERPAK, S.Ye.

Possibilities for increasing the efficiency of prospecting in the eastern part of the Ukrainian oil- and gas-bearing basin. Geol. nefti i gaza 9 no.2:20-24 F '65.

(MIRA 18:4)

1. IGIGI AN UkrSSR, Glavnoye upravleniye geologii i okhrany nedr pri Sovete Ministrov UkrSSR, Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut i trust Poltavaneftegazrazvedka.

MUROMTSEV, A.S.; ZAV'YALOV, V.M.

Economic effectiveness of oil and gas prospecting in the
Dnieper-Donets Lowland and northwestern margins of the Donets
Basin. Geol. nefti i gaza 4 no. 3:6-10 Mr '60. (MIRA 13:12)

1. Ukrainskiy nauchno-issledovatel'skiy geologo-razvedochnyy
institut.

(Dnieper-Donets Lowland--Petroleum geology)

(Dnieper-Donets Lowland--Gas, Natural--Geology)

ZAV'YALOV, V.M.

Petrovskoye-Kupol'naya key well. Trudy VNIGNI no.24:
103-146 '60. (MIRA 13:7)

(Kharkov Province--Petroleum geology)

(Kharkov Province--Gas, Natural--Geology)

BARANOV, I.G.; VITENKO, V.A.; ZAV'YALOV, V.M.; MUROMTSEV, A.S.

Possible reserves of oil and gas in the Dnieper-Donets Lowland.
Geol. nofti i gaza 5 no.7:17-19 J1 '61. (MIRA 14:9)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut.

(Dnieper-Donets Lowland--Petroleum geology)

(Dnieper-Donets Lowland--Gas, Natural--Geology)

ZAV'YALOV, V.M.; MUROMTSEV, A.S.; CHERPAK, S.Ye.

Means for increasing the efficiency of oil and gas
prospecting operations in the Dnieper-Donets Lowland.
Trudy UkrNIGRI no.7:9-16 '63.

(MIRA 19:1)

LYUBIMOV, Konstantin Aleksandrovich; ZAV'YALOV, V.P., red.; BORUNOV, N.I.,
tekhn.red.

[French electric cable industry] Frantsuzskaya kabel'naya pro-
myshlennost'. Moskva, Gos.energ.izd-vo, 1960. 158 p.

(MIRA 13:10)

(France--Electric cables)

BRANZBURG, Ye.Z.; GORNOVA, I.S.; SOKHRANSKIY, S.T.; ZAV'YALOV, V.P.,
red.; BORUNOV, N.I., tekhn. red.

[Technical documentation of cable jointing sleeves] Tekhnicheskaya dokumentatsiya na kabel'nye mufty. Moskva, Gos.energ. izd-vo. No.12 [Pole boxes for SB, AB, and AAB cables with saturated paper insulation carrying 1, 6, and 10 kv.] Nachtovye mufty dlia kabelei s bumazhnoi propitannoi izoliatsiei tipov SB, AB i AAB na napriazhenie 1, 6 i 10 kv. 1961. 71 p. (MIRA 15:2)
(Electric lines--Overhead) (Electric cables)

MAKSIMOV, Aleksandr Aleksandrovich; YAV'YALOV, V.P., red.; AKULOV, Ye.F.,
red.; KIREYEV, M.I., red.; NOVIKOV, V.K., red.; SAVEL'YEV, V.I.,
red.; CHUMAKOV, N.M., red.; BORUNOV, N.I., tekhn.red.

[Economy in the use of electric power in industrial enterprises]
Ekonomiya elektroenergii na promyshlennykh predpriyatiyakh.
Moskva, Gos.energ.izd-vo, 1961. 119 p.

(Electric power)

(MIRA 15:2)

ZAV'YALOV, V.P.

The ITS-1 measuring instrument. Biul.tekh.-ekon.inform.
no.2:33-34 '60. (MIRA 13:6)
(Electronic instruments)

KLEYN, V. [Klein, Wilhelm]; NEKHAIIDZE, D.M. [translator];
ZAV'YALOV, V.P., red.; FRIDMAN, V.Ya., red.; ZOTOVA, N.V.,
tekhn.red.

[Theory of crosstalk in communication lines] Teoriia vzaim-
nogo vliianiia v liniakh sviazi. Pod red. V.P.Zav'inlova.
Moskva, Izd-vo inostr.lit-ry, 1959. 204 p. Translated from
the German. (MIRA 12:9)

(Crosstalk)

PEYSAKHOVICH, Yu.I., insh.; ZAV'YALOV, V.V., insh.; SHCHUKIN, P.V., insh.

Concerning V.V.Bulgakov's article "Mechanization of repair operations."
Elek.sta.33 no.1:89-90 Ja '62. (MIRA 15:3)

(Electric power distribution—Equipment and supplies)

(Electric power plants—Maintenance and repair)

ZAV'YALOV, V.V., kand.med.nauk

Aspulla for individual treatment of small injuries. Ortop.travn.
1 protez. 20 no.1:71-72 Ja '59. (MIRA 12:3)

1. Glavnyy khirurg Kemerovskogo oblzdravotdela.
(WOUNDS AND INJURIES, ther.
antiseptic solution soaks, appar. (Rus))

ZAV'YALOV, V.V., mayor tekhnicheskoy sluzhby; BAKUMENKO, V.V., starshiy
inzhener-kapitan

Pulse motors can last longer. Vest.Vozd.Fl. no.7:84-85
J1 '60. (MIRA 13:7)
(Airplanes--Radio equipment)

ZAV'YALOV, V.V., kand.med.nauk (Stalinsk, ul. Ushinskogo, d.8-a, kv.4)

Experience with surgical treatment of some heart diseases [with
summary in English] Vest.khir. 81 no.7:25-29 J1 '58 (MIRA 11:8)

1. Iz otdeleniya grudnoy khirurgii 3-y gorodskoy bol'nitsy g.
Stalinska (glavnyy vrach - L.S. Kryukova).
(HEART, surg.
case reports (Rus))

2AVYUJ... (Enuga)

Role of temporary service for surgical patients in the reduction
of lethality in strangulated hernia. Sov.Med. 28 no.4:142-144 Ap
1986. (MIRA 18:6)

ZAV'YALOV, V.V.
ZAV'YALOV, V.V., kand.med.nauk (g.Stalinsk, Kemerovskoy oblasti, ul.
Ushinskogo, d.8-a, kv.4)

Diagnosis of acute appendicitis. Vest.khir. 79 no.7:127-128 J1 '57.
(MIRA 10:10)

1. Iz Stalinskogo gorzdravotdela (zav. - V.P.Selivanov) i 3-y
gorodskoy bol'nitsy g.Stalinska (gl. vrach - L.S.Kryukova)
(APPENDICITIS, diagnosis,
acute (Rus))

ZAV'YALOV, V.V.

"Data on Endemic Goiter in the Shori Mountains." Cand Med Sci, Omsk State Medical Inst, Omsk, 1953. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

ЛAV / 0241

SHAPIRO, L. I.; ZAV'YALOV, V. V.

A mobile unloading scraper with electric remote control. This prom.
no. 7:207 JT47. (MLRA 8:12)

1. Konstantinovskiy khimicheskii zavod
(Material handling) (Loading and unloading)

SAVEL'YEV, A.A., prof. (Stalinsk, Kemerovskoy oblasti, ul. Ushinskogo, d.8-a, kv.4); ZAV'YALOV, V.V., kand. med. nauk

Roentgenkymographic data in the evaluation of the heart in surgery for mitral stenosis. Vest. khir. 82 no.5:69-74 My '59. (MIRA 12:7)

1. Iz kafedry funktsional'noy diagnostiki i fizioterapii (sav. - prov. A.A. Savel'yev) Stalinskogo meditsinskogo instituta i otdeleniya grudnoy khirurgii Stalinskoy gorodskoy bol'nitsy No.3 (gl. vrach - L.S. Kryukova).

(X RAYS--THERAPEUTIC USE) (MITRAL VALVE--DISEASES)

ZAV'YALOV, V.V., inzhener.

Experience in operating mechanical equipment. Otdr.stroi. 2) no.5:
25-27 '54. (MLRA 7:8)
(Hydraulic engineering)

TABACHINSKIY, V.F., kand.tekhn.nauk, dotsent; NOVIKOV, Mikhail Nikolayevich, aspirant; YARCHUK, Andrey Yakovlevich, assistant;
ZAV'YALOV, Valeriy Aleksandrovich, starshiy laborant

Experimental study of the electrical strength of the insulation of the rotor windings of electric traction motors. Izv. vys. ucheb. zav.; elektromekh. 3 no.9:147-148 '60. (MIRA 15:5)

1. Zaveduyushchiy kafedroy teoreticheskikh osnov elektrotekhniki Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta. (for Tabachinskiy). 2. Kafedra elektricheskikh mashin Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Novikov). 3. Kafedra teoreticheskikh osnov elektrotekhniki Leningradskogo instituta inzhenerov zheleznodorozhnogo transporta (for Yarchuk). 4. Leningradskiy institut inzhenerov zheleznodorozhnogo transporta (for Zav'yalov).

(Electric railway motors)

(Electric insulators and insulation--Testing)

ZAV'YALOV, Vasil'y Mikhaylovich; YUDNAROVSKIY, Isaak Yefimovich;
CHERNYAKOVA, I.Z., red.; POMICHEV, A.O., red. izd-vn;
BOL'SHAKOV, V.A., tekhn. red.

[Introduction of closed-die coining and cold extrusion at the
Leningrad Phonograph Factory] Opyt vnedreniya ob'emnoi formovki
i kholodnogo vydavlivaniia na Leningradskom patefonnom zavode.
Leningrad, 1962. 17 p. (MIRA 15:8)
(Sheet-metal work) (Extrusion (Metals))

7

ZAV'YALOV, Ya. A.

Multilayer Automatic Welding Under Flux of Cylindrical Parts of "Cromansil" Steel. (In Russian.) Ya. A. Zav'yakov. *Autogennoe Delo* (Welding), Aug. 1949, p. 13-14.

Describes experiments made to evaluate suitability of the above process to circumferential welds on objects made from 30-mm-thick Cromansil steel. Both output and quality were greatly increased. Data on chemical composition and on mechanical properties of the weld are tabulated.

Sci. Res. Inst. Tech. + Org. of Aviation Industry

ANTHROPOLOGICAL LITERATURE CLASSIFICATION

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ZAV'YALOV, YA. A.

PA 167169

USSR/Metals - Welding

AUG 50

"Welding Under Flux of Pieces Intricate in Shape," Ya. A. Zav'yalov Eng'r, M. S. Knatsko, V. I. Nakhanev

"Avtogen Delo" No 8, pp 15-17

Discusses methods for automatic welding under flux of pieces with complicated shapes, e.g., elliptical. Recommends evolution of such shapes into planes with subsequent rolling of these planes after welding into requires space figures. This permits application of welding methods for straight joints on horizontal plane,

167169

USSR/Metals - Welding (Contd)

AUG 50

and thus eliminates designing of bulky and complicated equipment since universal device for welding flat sheets may be used.

167169

ZAV'YALOV, Ye. D.: Master Med Sci (diss) -- "Dynamic intestinal obstruction
(Clinical-experimental investigation)". Ivanovo, 1958. 22 pp (Ivanovo State
Med Inst), 200 copies (KL, No 8, 1959, 138)

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NO EXTENDED STRENGTHS

APPROVED FOR RELEASE: 03/15/2001

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ZAV'YALOV, Ye. S., ZAMUKHIN, N. V., KAVYRSHIN, A. Ye. and POLYAKOV, M. N.

"Clinical and Physiological Approach to the Study and Examination of Neuroses and Asthenias of the Flying Personnel," *Voyenno-medits. zhur.*, No. 1, pp. 30-36, 1955.

Verbatim translation - D 311970, 17 Aug 1955

The article gives a description of treatment of two casualties at the Central Scientific-Research Institute of the Air Force Hospital based on I. P. Pavlov's theories and A. G. Ivanov-Smolenskiy's methods.

POLYAKOV, M.N., polkovnik med.sluzhby, ZAV'YALOV, Ye.S., polkovnik med.
sluzhby, kand.med.nauk

Examination of flight personnel in cases of diseases of the nervous
system: Voen-med.zhur. no.12:8-11 D '55 (MIRA 12:1)

(RUSSIA--AIR FORCE--MEDICAL EXAMINATIONS)
(NERVOUS SYSTEM--DISEASES)

22029

27-6351

S/177/61/000/001/005/010
D211/D306

AUTHORS:

Zay'yakov, Ye.S., Colonel of Medical Services, Candidate of Medical Sciences, Mayzel', N.I., Candidate of Pedagogical Sciences, and Pokrovskiy, B.L., Captain

TITLE:

Experience of psychological investigation of candidates selected for flying schools

PERIODICAL: Voenno-meditsinskiy zhurnal, no. 1, 1961, 34 - 37

TEXT: These investigations were carried out on the basis of the theory of human abilities worked out by Soviet scientists. This theory assumes that such abilities are the sum total of the relatively stable special features of the human character which make an individual suitable for a given profession. They cannot be regarded as acquired knowledge or habits; nor are they permanent, immutable qualities; depending on the inborn peculiarities of the individual neurophysiological system, they may change and develop according to the individual's way of life. Therefore, the authors do not attempt

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Experience of psychological ...

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to establish the level of knowledge or habits of candidates, but rather their psychological qualities which are important for flying, namely: emotional balance, firmness, degree of attentiveness, ability to acquire and to change movement habits and willpower. These qualities do not guarantee by themselves good results, they rather point to the potential in this direction. Investigations included experimental tests, personality analysis by means of interviews and the study of opinions received from those institutions where candidates worked previously. Groups of 20 to 25 men were tested collectively on attentiveness, motion-visual co-ordination and the ability to change habits. These tests took 90 mins. for the whole group. Individual testing was carried out the next day, when the candidates' moto-sensoric reactions were checked on the NIIIAM apparatus. Their emotional reactions were studied and each was interviewed. The individual study of 20-25 men by 5 psychologists lasted 5 hours. After analyzing all available data, a suitability

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Experience of psychological ...

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assessment for training was drawn up for each candidate, the results not being disclosed to the candidates. 89 pupils, during their training in flying schools were submitted to further observations. 51 of them had a favorable training forecast, 20 had unfavorable ones and no decision was made on 18. According to their training results, pupils were divided into 3 groups: 1) those with excellent and good results; 2) those who had average results, i.e. they succeeded in completing the course despite difficulties during training; 3) those with unsatisfactory results; to this group belonged pupils who were unable to finish the course and those, who although completing it, were found unsuitable for further training on more complicated aircrafts. In the authors opinion, the last two groups ought to be viewed together as unsatisfactory, because pupils of the average group had shown such psychological characteristics as would not allow them to become fully reliable pilots. The comparison of the initial forecasts with actual results shows that favorable forecasts were found to be ultimately correct in about 70 % of

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the cases, the unfavorable ones in 75 % of the cases. The authors point out that it is impossible to determine all the characteristic qualifications of candidates during the very short time of entrance segregation, especially the interest of candidates in a flying career and the strength of their willpower. Therefore, it is indispensable to observe pupils during their training in schools, especially those who obtain unsatisfactory results, in order to determine the psychological factors which hinder their progress. The results of these observations could serve as a basis for rejecting some candidates before their entrance to flying school and also would point to the most suitable future training of unsatisfactory pilots. There is 1 table.

SUBMITTED: July, 1960

Card 4/4

ZAVIYALOV, Ye.S., polkovnik meditsinskoy sluzhby, kand.med.nauk; GURVICH,
T.Kh.

Military psychology in the service of the imperialist armies.
Voen.-med.zhur. no.1:90-92 Ja '61. (MIRA 14:1)
(PSYCHOLOGY, MILITARY)

APPARATUS FOR RECORDING MATERIALS

Electrotimer ESM-52A and other devices, impulse camera

"APPROVED FOR RELEASE: 03/15/2001

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VOLKOV, A., kand.tekhn.nauk; ZAV'YALOV, Ye., kand.med.nauk

Astronaut looks down on the earth. Av. 1 kosm. 47 no.2:87-91

F '65.

(MIRA 18:4)

S/124/61/000/012/013/038
D237/D304

AUTHOR: Zav'yalov, Yu. S.

TITLE: On possible generalizations of the method of density shock-expansion

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 12, 1961, 29, abstract (Dokl. Nauchn. konferentsii po teor. i prikl. vopr. matem. i mekhan., Tomsk, Tomskiy un-t, 1960, 93-95)

TEXT: Some new generalizations are proposed for an approximate method, utilizing the relations on the density shock and in the ordinary wave, for plane-steady as well as for one-dimensional non-steady flows. In the case of supersonic streamlining around a plane profile, the solution for the turbulent flow can be utilized, corresponding to the Prandtl-Meyer flow, but containing two arbitrary functions. In the case of motion of the piston in a tube, a solution is proposed which represents a

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On possible generalizations...

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generalization of Riemann waves onto a class of nonisentropic
flows. [Abstracter's note: Complete translation.] ✓

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24.4300
S/124/62/000/010/004/015
D234/D308

AUTHORS: Brodskiy, M. A. and Zav'yalov, Yu. S.

TITLE: Solution of boundary problems of plane supersonic gas flow with condensation discontinuities

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 10, 1962, 23, abstract 10B117 (Tr. Tomskogo un-ta, 1961, 155, 108-114) VB

TEXT: The authors investigate plane stationary vortex motion of gas. It is assumed that the entropy is nearly constant and that $1/v(\partial^2 v / \partial p^2)$ is independent of the flow function, v being the velocity and p the pressure. In a previous paper by Yu. S. Zav'yalov (Prikl. matem. i mekhan., 1960, 24, no. 2, 228-236; RZhMekh, 1961, 7B80) it was shown that in this case a certain potential flow corresponds to the vortex motion. For this reason the authors consider potential supersonic flow and use an approximation proposed by A. A. Grib and A. G. Ryabinin (Dokl. AN SSSR, 1955, 100, no. 3, 425-428; RZhMekh, 1956, no. 4, 2025) for obtaining a general solution. The following examples are considered: flow of a vortex stream

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Solution of boundary ...

B/124/62/000/010/004/015
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past a solid wall without a shock wave, flow behind a shock wave if
the flow parameters on the characteristic intersecting the latter
are known; flow past a solid wall in presence of an associated
shock wave. / Abstracter's note: Complete translation. 7

VB

Card 2/2

S/864/60/000/000/003/005
E031/E413

10.12.00

AUTHOR: Zav'yalov, Yu.S.

TITLE: On possible generalizations of the method of pressure discontinuity and expansion flows

SOURCE: Nauchnaya konferentsiya po teoreticheskim i prikladnym voprosam matematiki i mekhaniki, Tomsk, 1960, Doklady. Tomsk, 1960. 93-97

TEXT: Generalizations in the following fields are reviewed:
(1) Large supersonic velocities where the vorticity of the flow and variations in the entropy are important; new generalizations are proposed for one- and two-dimensional flows.
(2) Problems of flow round a plane profile where the function $p^{1/k}/\rho$ (k is the adiabatic index) varies comparatively slowly in which case the equations of vortex flow can be reduced to those of potential flow, which results in the solution of the problem of vortex flow corresponding to a Prandtl-Meyer expansion in which there are two arbitrary functions. (3) The motion of a piston in a tube which is a generalization of Riemann waves to one class of non-isentropic flows; because of hypersonic analogy
Card 1/2

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On possible generalizations ...

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E031/E413

the method reviewed can be applied to two-dimensional flows.

ASSOCIATION: Tomskiy universitet (Tomsk University)

✓B

Card 2/2

ZAV'YALOV, Yu.S. (Tomsk)

Approximate solution of problems in a plane vortex gas flow.
Prikl. mat. i mekh. 24 no. 2:228-236 Mr-Apr '60. (MIRA 14:5)
(Vortex motion)

16.7300

S/044/60/000/009/012/021
C111 /C222

AUTHORS: Zav'yalov, Yu.S., and Kopylov, G.I.

TITLE: A Special Case of the Motion of a Body With a Variable Mass

PERIODICAL: Referativnyy zhurnal. Matematika, 1960, No.9, p.93,
Abstract No.10379. Tr.Tomskogo un-ta, 1959, Vol.144, pp.94-96

TEXT: The motion equations of a body with a variable mass and a fixed point are considered for the case that the absolute velocities of the particles which separate from the body are equal to zero. In this case these equations, with the usual notations, have the form:

$dA_p/dt + (C-B)qr = M_x, \dots$. The authors consider the equations of the rotary motion of the body under the conditions: 1) $M_x = M_y = M_z = 0$ and

2) $A = B$, and they show that the motion equations in this case are integrable in quadratures and the Eulerian angles are expressed by the

formulas: $\varphi = C_0 R \int_{t_0}^t \frac{A-C}{AC} dt$, $\theta = \arccos \frac{C_0 R}{K}$, $\psi = \psi_0 + K \int_{t_0}^t \frac{dt}{A}$, where

C_0, R, K, ψ_0 are constants.

[Abstracter's note: The above text is a full translation of the original Soviet abstract.]

Card 1/1

ZAV'YALOV, Yu. S. (Tomsk)

"An Approximate Method concerning Two-Dimensional Rotational Supersonic Gas Flow."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, 27 Jan -3 Feb 1960.

ZAV'YALOV, Yu.S.

On certain class of plane, steady, rotational gas flow.

Dokl. AN SSSR 116 no.3:363-364 S '57.

(MIRA 11:2)

1. Tomskiy gosudarstvennyy universitet im. V.V. Kuybysheva.

Представлено академиком Л.И. Седовым.

(Gas flow)

ZAV'YALOV, Yu.S.

AUTHOR: ZAV'YALOV, Yu.S.

20-3-4/46

TITLE: On a Class of Plane-Parallel Stationary Rotational Gas Flows.
(Ob odnom klasse plosko-parallelnykh ustanovivahikhaya
vikhrevykh dvizheniy gaza).

PERIODICAL: Doklady Akad.Nauk SSSR , 1957, Vol.116, Nr.3, pp.363-364. (USSR)

ABSTRACT: Let v be the velocity of a plane-parallel stationary rotational flow of an ideal incompressible fluid, p - pressure and ψ - flow function. The author shows that if the velocity v has the form

$$v(p, \psi) = f_1(p)F_1(\psi) + f_2(p)F_2(\psi)$$

and the functions $f_1(p)$ and $f_2(p)$ satisfy the condition

$$\frac{f_1''(p)}{f_1'(p)} = \frac{f_2''(p)}{f_2'(p)},$$

then the problem of a rotational motion can be reduced to the problem of the potential motion. Conversely to every potential motion there corresponds a certain adjoint rotational motion.

Card 1/1 The author's considerations base on methods due to Sedov.

ASSOCIATION: State University im. Kuybyshev, Tomsk (Tomskiy gosudarstvennyy universitet im.V.V.Kuybysheva)

SUBMITTED: April 12, 1957

AVAILABLE: Library of Congress

S/040/60/024/02/004/032

AUTHOR: Zav'yalov, Yu. S. (Tomsk)

TITLE: Approximation Method for the Solution of the Problem of a
Plane Vortex Motion of a Gas |.

PERIODICAL: Prikladnaya matematika i mekhanika, 1960, Vol. 24, No. 2
pp. 228-236

TEXT: In the example of an adiabatic motion the author proves the theorem announced by him in (Ref.1). The approximation method which is usually used for investigating potential flows is extended to vortex flows in the supersonic range. For these flows the author constructs a general approximative solution with three arbitrary functions. He considers some boundary value problems with and without compression shocks.

Yu.V. Rudnev, J. Z. Tarasova, S. A. Khristianovich and L. J. Sedov are mentioned in the paper.

There are 2 figures, and 9 Soviet references.

SUBMITTED: July 6, 1959



Card 1/1

SOV/124-58-10-10900

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 10, p 26 (USSR)

AUTHOR: Zav'yalov, Yu. S.

TITLE: On the Problem of the Integration of Plane Eddy Motion of Gas
(K voprosu ob integririrovanii ploskogo vikhrevogo dvizheniya gaza)

PERIODICAL: Dokl. 7-y Nauchn. konferentsii, posvyashch. 40-letiyu Velikoy
Oktyabr'sk. sots. revolyutsii, Nr 2. Tomsk, Tomskiy un-t, 1957,
pp 35-37

ABSTRACT: Bibliographic entry

Card 1/1

ZAV'YALOV, Yu. S.

Zav'Yalov, Yu. S.: "On the integration of certain equations of the non-isentropic movement of a gas." Tomsk State U imeni V. V. Kuytyshev. Tomsk, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Science)

So: Knizhnaya letopis' No 27, 1956. Moscow. Pages 94-109; 111

ZAV'YALOV, Yu.S.

On some integrals related to one-dimensional gas flow.
Dokl. AN SSSR 103 no.5:781-782 Ag. '55. (MLRA 9:1)

1.Tomskiy gosudarstvennyy universitet imeni V.V.Kuybysheva. Predstavleno
akademikom L.I.Sedovym.
(Gas flow)

"APPROVED FOR RELEASE: 03/15/2001

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24.4000

1136, 1137, 1158

S/124/60/000/012/001/009
A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 12, p. 10, # 15543

AUTHORS: Zav'yalov, Yu. S., Kopylov, G.I.

TITLE: The Special Case of the Motion of a Body of Variable Mass

PERIODICAL: Tr. Tomskogo un-ta, 1959, Vol. 144, pp. 94-96

TEXT: The authors consider the motion of a body of variable mass around a fixed point under the following conditions: 1) the absolute velocities of the separating particles are equal to zero; 2) the coordinate axes connected with the body remain the main inertia axes during the process of the body mass variation. 3) the inertia ellipsoid is an ellipsoid of revolution; 4) the main moment of the external forces with respect to the fixed point is equal to zero. Under these conditions, the Euler equations are reduced to the motion equations of a body of constant mass with regular precession and can be solved by elementary functions. The problem is solved to the end result under the condition that the inertia moments are known time functions.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001964020005-4

M.I. Yefimov

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

SAMOKHVALOVA, M.A.; BALAKHOVSKAYA, M.I.; DUBOVTSOVA, Yu.I.; POPOVA, G.G.;
ZAV'YALOVA, A.I.

Endemic goiter in Krasnoyarsk Territory. Probl. endok. i gorm.
11 no.1:13-15 Ja-F '65. (MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut eksperimental'noy
endokrinologii (dir. - prof. Ye.A. Vasyukova) i Krasnoyarskiy
krayevoy protivozobnyy dispanser (glavnyy vrach Yu.I. Dubovtseva).

ZAV'YALOVA, A.I., inzhener.

Furniture trim from wood, Der. i lesokhim.prom. 3 no.10:21-22
0 '54. (MLRA 7:11)

1. Moskovskaya mebel'naya fabrika No. 2.
(Furniture)

BAZHENOV, V.I.; MODESTOVA, T.A., retsenzents; ZAV'YALOVA, A.N., red.;
IMSHENNIK, I.G., tekhn. red.

[Guide to textile materials in the clothing industry;
abstracts of lectures] Shveinoe materialovedenie; konspekt
lekttsii. Moskva, Nauchno-metodicheskii kabinet. Pt.1. [Textile
fibers] Tekstil'nye volokna. 1960. 80 p. Pt.2. [Technology of
textile manufacture] Tekhnologiya tekstil'nogo proizvodstva.
1961. 114 p. (MIRA 15:9)

(Textile industry)

PEVNEV, Nikolay Ivanovich; IVANOV, Ye.M., spetsred.; ZAV'YALOVA, A.N.,
red.; GERASIMOVA, Ye.S., tekhn.red.

[Planning and organizing the dissemination of scientific and
technical information in industry] Planirovanie i organizatsiia
nauchno-tekhnicheskoi informatsii v promyshlennosti. Moskva, Gos.
izd-vo planovo-ekon.lit-ry, 1961. 188 p. (MIRA 14:6)
(Technology--Information services)

LEVIN, Isidor Markovich; PETRUSHEV, I.M., red.; ZAV'YALOVA, A.N., red.;
GERASIMOVA, Ye.S., tekhn. red.

[Planning and the analysis of work and wages in an industrial enterprise]
Planirovanie i analiz truda i zarabotnoi platy na promyshlennom pred-
priyatii. Moskva, Gos. izd-vo planovo-ekon. lit-ry, 1961. 232 p.
(MIRA 14:11)

(Moscow--Industrial management)
(Moscow--Wage payment systems)

SESLAVINSKIY, Ivan Sergeyevich; KORNEV, A.A., spets. red.; ZAV'YALOVA,
A.N., red.; GERASIMOVA, Ye.S., tekhn. red.

[Working capital of industrial enterprises] Oborotnye sredstva
promyshlennykh predpriyatii. Moskva, Izd-vo ekon. lit-ry,
1961. 63 p. (MIRA 15:1)

(Capital)

KAMENITSER, Solomon Yefremovich; ZAV'YALOVA, A.H., red.; BOBYLEVA, L.V.,
red.; PONOMAREVA, A.A., tekhn. red.

[Management guide for the industrial enterprises of the U.S.S.R.]
Khoziaistvennoe rukovodstvo promyshlennym predpriatiem v SSSR.
Moskva, Izd-vo ekon. lit-ry, 1961. 285 p. (MIRA 14:10)
(Industrial management)

ALEKSANDROV, Mikhail Vasil'yevich, kand. ekonom. nauk, dots.; MILLER, Edmund Ernestovich, kand. tekhn. nauk, dots.; VOVK, A.G., spets. red.; ZAVYALOVA, A.N., red.; BOBYLEVA, L.V., red.; PONOMAREVA, A.A., tekhn. red.

[Planning of continuous production processes] Planirovanie potochnogo proizvodstva. Moskva, Izd-vo Ekon.lit-ry, 1961. 178 p.
(MIRA 14:11)

(Factory management).

MALAKHOV, Ivan Kuz'mich; KOSHELEV, T.K., spets. red.; ZAV'YALOVA,
A.N., red.; GERASIMOVA, Ye.S., tekhn. red.

[Case problems on the fundamentals of the organization of an
industrial enterprise; for accountants] Sbornik zadach po osno-
vam organizatsii promyshlennogo predpriiatiia; uchebnoe poso-
bie dlia kursov podgotovki i povysheniia kvalifikatsii bukh-
galterov promyshlennosti. Moskva, Ekonomizdat, 1962. 115 p.
(MIRA 16:2)

(Industrial management) (Accounting)

ZHDANOV, Aleksandr Ivanovich; SOLYANSKIY, A.A., spets.red.; ZAV'YALOVA,
A.H., red.; PONOMAREVA, A.A., tekhn. red.

[Economic efficiency of advanced methods of metalworking;
methods of calculation] Ekonomicheskaya effektivnost' pro-
gressivnykh metodov metalloobrabotki; metodika rascheta.
Moskva, Ekonomizdat, 1962. 133 p. (MIRA 15:10)
(Metalworking)

KARASEVA, Anastasiya Fedorovna; BORODKIN, I.A., spets. red.;
ZAV'YALOVA, A.N., red.; GERASIMOVA, Ye.S., tekhn. red.

[New method for planning diversified article production]
Novyi metod planirovaniia mnogonomenklaturnogo proizvod-
stva. Moskva, Ekonomizdat, 1962. 93 p. (MIRA 15:6)
(Factory management)

PLOTNIKOV, K.N.; MAYEVSKIY, I.V., doktor ekon.nauk; YEVSTAF'YEV, G.N.,
kand.ekon.nauk; KONYUKHOV, V.D., nauchnyy sotrudnik. Prinsipal
uchastiye DAVYDKOV, I.I., nauchnyy sotrudnik. ZAV'YALOVA, A.N.,
red.; PONOMAREVA, A.A., tekhn.red.

[Potentials for reducing production costs] Rezervy snizhenia
sebestoimosti produktsii. Moskva, Izd-vo ekon.lit-ry, 1962.
333 p. (MIRA 15:4)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Direktor Instituta
ekonomiki AN SSSR, chlen-korrespondent AN SSSR (for Plotnikov).
3. Institut ekonomiki AN SSSR (for Yevstaf'yev).
(Costs, Industrial)

BROVKOVICH, D.A.; POPOV, A.A.; ZIMIN, A.I.; KOMAROV, G.V.;
ABROSKIN, P.I.; ZAV'YALOVA, A.N., red.; GERASIMOVA, Ye.S.,
tekhn. red.

[Industrial planning in an economic region; practice of the
Rostov Economic Council] Planirovanie promyshlennosti v ekono-
micheskom raione; opyt Rostovskogo sovnarkhoza. Moskva, Ekonom-
izdat, 1962. 187 p. (MIRA 15:7)

(Rostov Province--Economic policy)

OMAROVSKIY, Aleksandr Grigor'yevich; ZAV'YALOVA, A.N., red.; LISOV,
V.Ye., red.; GERASIMOVA, Ye.S., tekhn. red.

[Development and distribution of the machinery industry in the
U.S.S.R.] Razvitie i razmeshchenie mashinostroeniia v SSSR. Mo-
skva, Ekonomizdat, 1962. 236 p. (MIRA 15:7)
(Machinery industry)

VLASOV, Boris Vladimirovich; LESKOV, A.V., doktor ekon. nauk, nauchnyy
red.; ZAV'YALOVA, A.N., red.; PONOMAREVA, A.A., tekhn. red.

[Ways to save labor in auxiliary work in industry] Puti ekonomii
truda na vspomogatel'nykh rabotakh v promyshlennosti. Izd.2.,
ispr. 1 dop. Moskva, Ekonomizdat, 1962. 242 p. (MIRA 16:3)
(Machinery industry--Management)
(Steel industry--Management)

POLYANSKIY, Vladimir Grigor'yevich; ZAV'YALOVA, A.N., red.;
PONOMAREVA, A.A., tekhn. red.

[New developments in the organization of industrial production
in enterprises] Novoe v organizatsii promyshlennogo proizvodstva
na predpriyatiyakh. Moskva, Ekonomizdat, 1962. 156 p.

(MIRA 16:3)

(Industrial organization)

OGORODNIKOV, Boris Yevgen'yevich; ZAV'YALOVA, A.N., red.; GERASIMOVA,
Ye.S., tekhn. red.

[Correspondence in industrial enterprises] Korrespondentsia pro-
myshlennykh predpriatii. Izd.4., ispr. i dop. Moskva, Ekonom-
izdat, 1962. 157 p. (MIRA 16:3)
(Commercial correspondence)

ZHDANOV, Aleksandr Ivenovich; ZAV'YALOVA, A.N., red .; GERASIMOVA,
Ye.S., tekhn. red.

[Economic efficiency of equipment modernization] Ekonomi-
cheskaya effektivnost' modernizatsii oborudovaniia. Izd.2.,
dop. i perer. Moskva, Ekonomizdat, 1963. 199 p.

(MIRA 16:12)

(Machinery industry--Technological innovations)

RADOMYSEL'SKIY, Mark Il'ich; SHIFRIN, Iosif Abramovich; ZAV'YALOVA,
A.N., red.; GERASIMOVA, Ye.S., tekhn. red.

[Firms are a new form of industrial administration] Firmy -
novaia forma upravleniia proizvodstvom. Moskva, Ekonomizdat,
1963. 123 p. (MIRA 16:12)
(Industrial organization)

YEZERSKIY, Petr Pavlovich; ZAV'YALOVA, A.N., red.; KANPOVA, L.V.,
tekhn. red.

[Calculating and planning increase in labor productivity
according to the factors involved] Ischislenie i planiro-
vanie rosta proizvoditel'nosti truda po faktoram. Mo-
skva, Ekonomizdat, 1963. 261 p. (MIRA 16:12)
(Labor productivity)

SHCHUKIN, Aleksey Grigor'yevich; SHKOL'NIKOV, Boris Yakovlevich;
ZAV'YALOVA, A.N., red.; POZGALEVSKAYA, S.A., mlad. red.;
PONOMAREVA, A.A., tekhn. red.; GERASIMOVA, Ye.S., tekhn.
red.

[Technical, industrial and financial plan of enterprises
of local importance] Tekhpromfinplan predpriatii mestnogo
znachenia. Moskva, Ekonomizdat, 1963. 295 p.

(MIRA 16:11)

(Industrial management)

ZLOBIN, Pavel Iosifovich; SOROKIN, Sergey Semenovich, spets.
red.; ZAV'YALOVA, A.N., red.; PONOMAREVA, A.A., tekhn.
red.
[Accounting in construction] Bukhgalterskii uchet v
stroitel'stve. Moskva, Ekonomizdat, 1963. 462 p.
(MIRA 17:2)

NIKITIN, Vladimir Tikhonovich; DRAGUNOVA, Lyudmila Markovna;
ZAV'YALOVA, A.N., red.; GERASIMOVA, Ye.S., tekhn. red.

[Planning the production and administrative operations of
an enterprise] Planirovanie proizvodstvenno-khoziaistvennoi
deiatel'nosti predpriiatiia. Moskva, Ekonomizdat, 1963. 95 p.
(MIRA 16:8)

(Industrial management)

FEDORENKO, Nikolay Prokof'yevich; KRICHEVSKIY, Il'ya Yevseyevich;
ZAV'YALOVA, A.N., red.; PONOMAREVA, A.A., tekhn. red.

[Synthetic fibers in the national economy] Khimicheskie volokna v narodnom khoziaistve. Moskva, Ekonomizdat, 1963.
242 p. (MIRA 16:7)

(Textile fibers, Synthetic)

SHUKHGAL'TER, Lev Yakovlevich; ZAV'YALOVA, A.N., red.; GERASIMOVA,
Ye.S., tekhn. red.

[Economic aspects of the durability and reliability of
machinery] Ekonomika dolgovechnosti i nadezhnosti mashin.
Moskva, Ekonomizdat, 1963. 147 p. (MIRA 16:5)
(Machinery)

PROTSEROV, Serafim Aleksandrovich; BAGINSKIY, M.N., spets. red.;
ZAV'YALOVA, A.N., red.; PONOMAREVA, A.A., tekhn. red.

[Intraplant business accounting] Vnutrizavodskoi khozras-
chet. Moskva, Ekonomizdat, 1963. 175 p. (MIRA 16:7)
(Automobile industry—Finance)

GLEBOV-KOTEL'NIKOV, Erik Anatol'yevich; LIBERMAN, Erik Anatol'yevich;
ZAV'YALOVA, A.N., red.; USHANOVA, S.N., ed. red.

[Mechanization of economic calculations in an enterprise]
Mekhanizatsiia ekonomicheskikh raschetov na predpriatii.
Moskva, Ekonomika, 1965. 150 p. (MIRA 18:12)